

AMENDMENTS TO THE CLAIMS

1. (Original) A method of instrumenting Java components installed on an application server in order to enable the Java components to be monitored, the method comprising:

adding a patch to a class loader class of a Java virtual machine installed on the application server, wherein the patch causes the class loader class to pass Java components to an instrumentation component when said Java components are loaded by the Java virtual machine;

receiving, from a patched version of said class loader class, code of a Java component to be loaded by the Java virtual machine; and

with the instrumentation component, instrumenting said code of the Java component to add functionality for tracking execution times.

2. (Original) The method of claim 1, wherein instrumenting said code comprises adding calls to each of a plurality of methods of the Java component, to thereby provide functionality for monitoring execution times of said methods.

3. (Currently amended) The method of claim 1, wherein instrumenting said code comprises adding functionality for detecting when the Java component is invoked by a colored transaction request message so overhead associated with tracking the execution times is not incurred with respect to transactions executed by real users.

4. (Original) The method of claim 1, wherein instrumenting said code comprises adding functionality for reporting transaction identifiers of transactions that invoke the Java component, to thereby allow said execution times to be associated with transactions to which they correspond.

5. (New) The method of claim 1, further comprising:

generating a breakdown report including at least one of the group consisting of:

the average amount of time that a transaction was processed by servlets.

6. (New) The method of claim 1, further comprising:
generating a breakdown report including the average amount of time that the transaction was processed by session enterprise java beans (EJBs).
7. (New) The method of claim 1, further comprising:
generating a breakdown report including the average amount of time that the transaction was processed by Entity EJBs.
8. (New) The method of claim 1, further comprising:
generating a breakdown report including the average amount of time that passes from the moment the application server sends an SQL query to a database server until the database server returns a response to the application server.
9. (New) The method of claim 1, further comprising:
generating a breakdown report including the average amount of time that passes from the moment the application server receives a transaction request until the request is allocated a thread.
10. (New) The method of claim 1, further comprising:
generating a breakdown report including the average amount of time that passes from the moment the transaction request is allocated a thread until the request is handed off to a servlet.
11. (New) The method of claim 1, further comprising:
providing a filter option to allow a user to limit a view of a breakdown report of data reported by a specific instrumentation component.
12. (New) The method of claim 1, further comprising:
providing a filter option to allow a user to view a breakdown report of time spent by specific methods used in a transaction.

13. (New) The method of claim 1, further comprising:
monitoring the amount of time a transaction takes to complete.
14. (New) The method of claim 1, further comprising:
monitoring server response times.
15. (New) The method of claim 1, further comprising:
monitoring load times for specific page components.
16. (New) The method of claim 1, further comprising:
implementing a plurality of agents in different user locations to monitor response
times and other performance parameters as seen by end users of a web site
in such locations.
17. (New) The method of claim 1, further comprising:
implementing a plurality of agents to monitor a web site and report respective
performance parameter measurements for storage in a central database; and
allowing the measurements to be accessed and viewed in aggregate form and
detailed form via interactive reports.
18. (New) The method of claim 1, further comprising:
tracking execution of a particular transaction through application components invoked
by the transaction; and
allowing the measurements to be accessed and viewed in aggregate form and
detailed form via interactive reports.